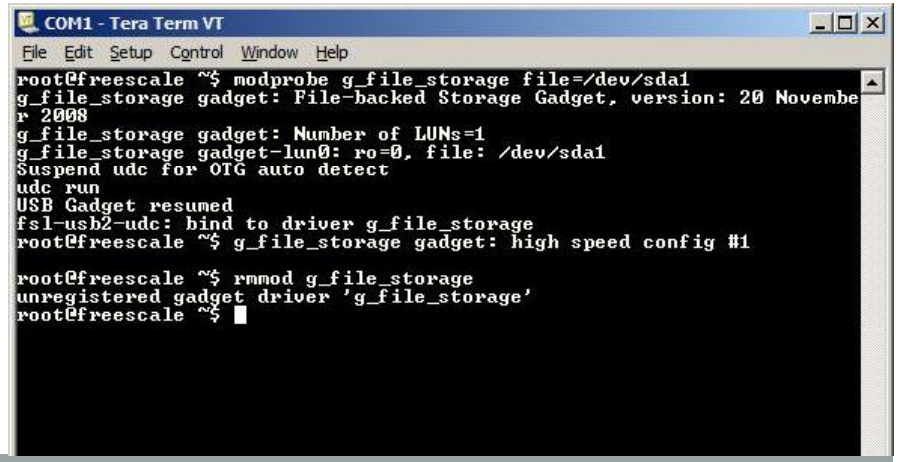
Testing USB OTG

- With memory stick still inserted, let's try USB OTG functionality
- We need to load gadget driver that will determine USB device functionality on the USB On-The-Go port
- When gadget is mass storage device, we need to provide memory location that will be used for mass storage
  - Can be real device (like memory stick) available under `/dev/` tree
  - Can be a file whos' content mimics a real file system

Testing USB OTG

- Load gadget driver, instructing it to use memory stick we inserted for mass storage
  - `modprobe g_file_storage file=/dev/sda1`
- Insert USB cable to PC
- EVK should be recognized as mass storage device and memory stick content should be visible!
- Remember to unmount the EVK on PC
- Remove gadget driver as well
  - `rmmod g_file_storage`
- Unplug USB cable from PC



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Testing USB OTG

- In order to create a file containing file system type following on host PC terminal in LTIB install folder:
  - `cd /home/freescale/mx28/ltib`
    `sudo mkdosfs –C rootfs/root/dosfs 8192`

- Switch back to serial terminal and check that file named **dosfs** is available
  - `cd`
    `ls –al dosfs`

Testing USB OTG

- Load gadget driver, instructing it to use dosfs file for mass storage
  - `modprobe g_file_storage file=/root/dosfs`
- Insert USB cable to PC
- EVK should be recognized as empty (~8MB) storage device
- When done, remember to unmount EVK on Host PC
- Remove g_file_storage module when not needed any more
  - `rmmod g_file_storage`
- dosfs can also be accessed from EVK
  - ```
    mkdir /mnt/fs
    mount dosfs /mnt/fs
    ls –al /mnt/fs
    umount /mnt/fs
    ```
    ```